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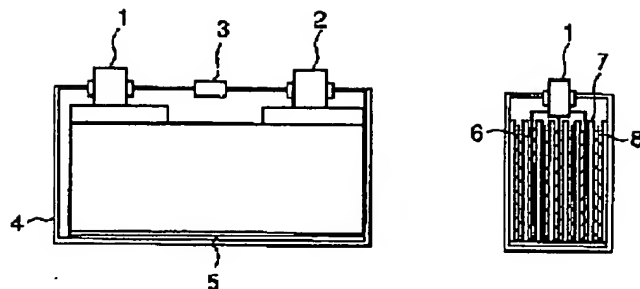
APPLICATION NUMBER : 11045712

APPLICANT : NISSAN MOTOR CO LTD;

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INT.CL. : H01M 10/40 H01G 9/058 H01M 4/48

TITLE : NONAQUEOUS ELECTROCHEMICAL  
CAPACITOR



ABSTRACT : PROBLEM TO BE SOLVED: To construct an electrochemical capacitor of high capacitance and to provide a capacitor used with a ruthenium oxide in an electrode by containing a group VIII transition metal oxide in at least, one electrode and by providing a nonaqueous solution of a lithium salt containing electrolyte.

SOLUTION: In this nonaqueous electrochemical capacitor, electrodes 1 and 2 are constructed by coating and drying a slurry of an electrode composition of a ruthenium oxide powder and binder of an acetylene black and a polyvinylidene fluoride on a collector of aluminum foil to form a thin film. These electrodes 1 and 2 are sandwiched and laminated with a porous separator of a polypropylene to be housed in a capacitor can 4. Respective electrode terminals are leaded on alternate layers. After vacuum-dried, a proper amount of a nonaqueous electrolyte containing a lithium is added in the capacitor can 4. When an electrochemical capacitor element in series connection is constructed, the number of cells can be reduced substantially so that costs can be reduced and the number of electric circuits for monitoring cell voltage can be reduced as well.

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